

TITLE

A CONTAINER FOR PRODUCT WITH LESS PACKAGING MATERIAL

BACKGROUND

[0001] The present invention relates to the field of the packaging of flowable products such as liquids or pasty products , particularly that of containers intended to contain beverages and more especially mineral water.

[0002] One topic in the packaging area, especially for water is to reduce the weight of the plastic material used, and more particularly to reduce the weight of the bottom of the container. By reducing the weight of the bottom, the first danger is that said bottom is less resistant because of the fact that the bottom is really the part of the container, which is the more submitted to constraints, due to the contact of said bottom with the place where it is disposed. There are already some solutions to that problem, like the container with petaloid bottom: the FR Patent No. 2772720 concerns such a container, wherein the bottom is thinner. Although this patent brings a solution for the bottom, it remains a container with a too high amount of plastic material for the volume of the product filled in said container.

[0003] The objective of the present invention is to have a container for a flowable product with a bottom allowing said container to stand and which for the same volume requires less plastic than a standard container while at the same time having comparable or higher mechanical properties.

SUMMARY

[0004] The subject of the present invention is a container comprising a body formed by walls and a bottom having in his greater section a dimension d_1 and a neck with an internal diameter d_2 , said container being made from a semi-crystalline PET, the body of said container comprising at its bottom at least three feet spaced from each other and being integral with said body, wherein for the body, the ratio weight of the walls on weight of the bottom is comprised between 3 and 4 and wherein the ratio volume of the body of the container per gram of PET of the body is comprised between 80 and 120. The volume is given in ml.